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EXAMINER

ABRAHAM, AMJAD A

ART UNIT	PAPER NUMBER
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1791

NOTIFICATION DATE	DELIVERY MODE
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ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 10/598,379	Applicant(s) STOLARCZYK ET AL.	
	Examiner AMJAD ABRAHAM	Art Unit 1791	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 September 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) 22-24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Applicant's remarks and amendments, filed on September 08, 2010 have been carefully considered. Claims 1, 6, 11, 16, and 21-24 are currently amended. Thus claims 1-24 are pending review in this action.

Claim Objections

1. Claims 22-24 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

a. Claims 22-24 (depending on claims 1, 11, and 21) do not further limit the parent claim because the parent claims define the poly(urethane-urea) material as CONSISTING ESSENTIALLY of (a) at least one polyol compound, (b) at least one polyol compound, and (c) an isocyanate compound. However, claims 22-24 use the transitional phrase COMPRISING of (a), (b), and (c). As "comprising of" does not further limit "consisting essentially of" the claims have been objected to.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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2. Claims 1-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

a. Claim 1 (lines 9-20), claim 11 (lines 9-20), claim 21 (lines 9-20) disclose a separate contouring and restoring step in which the composition after the initial contouring is substantially sag resistant and maintains its shape without substantial run-off during contouring step.

i. Applicant has no support for the material being “substantially sag resistant” and “without substantial runoff” after the contouring step and prior to the curing operation (restoration step).

(1) The only disclosure of contouring is seen in page 3 line 29 to page 4 line 7 of applicant's disclosure. In this disclosure the contouring step does not describe sag or runoff properties.

(2) Sag and Runoff properties are only taught for the restored (cured) rail seat in applicant's disclosure. **(See page 3 lines 3-14).**

(a) In applicant's disclosure the sag properties are limited to after the curing operation.

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Grounds of Rejection are maintained with minor changes to due applicant's amendments and remarks dated September 8, 2010.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. *Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giorgini et al (USP No. 7,138,437) in view of Rhodes et al. (USP No. 4,295,259) as evidenced by Young et al.(USP No. 5,173,222).*

5. First with respect to claims 1, 11, and 21, applicant has used the transitional phrases "comprising" and "consisting essentially of" with respect to the composition of the poly(urethane-urea) material. The transitional phrase "consisting essentially of" limits the scope of a claim to the specified materials or steps ***"and those that do not materially affect the basic and novel characteristic(s)" of the claimed invention.*** In *re Herz*, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976) (emphasis in original) (Prior art hydraulic fluid required a dispersant which appellants argued was excluded from claims limited to a functional fluid "consisting essentially of" certain components. In finding the claims did not exclude the prior art dispersant, the court noted that appellants' specification indicated the claimed composition can contain any well-known additive such as a dispersant, and there was no evidence that the presence of a dispersant would materially affect the basic and novel characteristic of the claimed invention. For the purposes of searching for and applying prior art under 35 U.S.C. 102 and 103, absent a clear indication in the specification or claims of what the basic and novel characteristics actually are, "consisting essentially of" will be construed as equivalent to "comprising." See, e.g., *PPG*, 156 F.3d at 1355, 48 USPQ2d at 1355 ("PPG could have defined the scope of the phrase 'consisting essentially of' for purposes of its patent by making clear in its specification what it regarded as constituting a material change in the basic and novel characteristics of the invention.").

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- a. In this case, Applicant has provided a significant amount of additional materials other than polyols, amines, and polyisocyanates. Applicant has stated additional materials such as, diluents, fillers, compatibilizers, thixotropes, pigments, and anti-settling agents can be added to the inventive composition. **(See page 7 line 13 to page 5 line 8 and table 1 of applicant's specification)**. Since such a wide variety of additional materials can be added to the inventive composition, the limitation consisting essentially of will be interpreted as comprising in the following claim rejections. **See MPEP 2111.03 for clarification on how consisting essentially of and comprising differ/compare in scope.**
6. Regarding claims 1, 11, and 21 Giorgini teaches a method for repairing structural members by using a polyurethane material **(polyurethane-urea – see column 5 lines 9-19)** to repair the structural members. **(See abstract)**. Giorgini goes on to teach that the structural members can be rail tie assemblies. **(See claims 9, 11, and column 8 lines 24-31)**. Furthermore, Giorgini teaches that a polyurethane mixture is applied to the rail tie void (defect). **(See claim 11 and column 8 lines 12-40)**. This defect would be on top side or upper surface of the rail tie. Giorgini goes on to teach the poly (urethane-urea) material comprises Part A which is a polyol component and part B which is an isocyanate component. **(See abstract)**. Giorgini goes on to teach that a polyamine gelling agent can be added to Part A. **(See column 3 lines 35-42)**. This composition (polyol/amine/isocyanate) is then filled into a defect (contoured). **(See column 8 lines 32-40)**. Moreover, the polyurethane material is cured to repair the rail tie. **(See column 2 lines 39-42 and example 8 in Column 11 line 64 to column 12 line 18)**. Finally, a

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sag resistant polymeric repaired article is produced which can withstand dynamic operating conditions, compressive loading, maintaining rail gauge of a railcar. **(See abstract disclosing the addition of strength enhancers that would give the repaired article excellent strength in order to prevent deformation during a train pass).**

b. Conventionally, rail seats are part of rail tie assemblies as they insulate the rail from the rail tie. **(See applicant's specification page 1 lines 9-12).**

Furthermore, rail seats can be made of polyurethane. It would have been obvious to apply the teachings of Giorgini to include the repair of the rail seat portion of the rail tie assembly as Giorgini stands for repairing polyurethane based components in a rail tie assembly. As the rail seats and rail tie (defects- see spike hole defects on rail ties as seen in Giorgini-abstract) are both repaired using of polyurethane it would have been obvious for one having the ordinary skill in the art apply Giorgini's process to rail seats.

i. Although rail ties themselves are typically concrete, defects in these concrete rail ties such as spike holes are repaired using the process of Giorgini. **(See abstract).** Polyurethane is added to repair the defects and it would have been obvious for one having the ordinary skill in the art to use polyurethane to fix other polymeric rail tie components such as a rail seats with the same polymeric material (polyurethane).

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c. With respect to claim 1, Giorgini does not expressly teach restoring the damaged rail seat by curing the polymeric material under ambient temperature and pressure conditions.

d. However, Rhodes teaches a method of repairing (filling) defects (holes) in a railway tie. **(See Abstract)**. Rhodes teaches an In Situ method of plugging a railroad tie by adding polyurethane foam which is curable at outdoor ambient temperature and pressure to make a rigid repaired article. **(See claim 1)**.

e. Obviously, the repaired article formed from the process disclosed in Giorgini and Rhodes would have the claimed Sag resistance as well as maintains the shape without substantial run-off as the combination of Giorgini and Rhodes applies the same process and materials as those disclosed in the instant application. The processes disclosed in Giorgini and Rhodes both are for Rail assemblies and one having the ordinary skill in the art would have made sure that the repaired material had adequate sag resistance in order to withstand railroad operations.

f. Giorgini and Rhodes are analogous art because they are from the same field of endeavor which is repairing or altering a railroad tie assembly. At the time of the invention, it would have been obvious to one having the ordinary skill in the art, having the teachings of Giorgini and Rhodes before him or her, to modify the teachings of Giorgini with the teachings of Rhodes for the benefit of repairing the rail tie on site. The motivation would have been to eliminate the need to bring heating or pressuring equipment on site in order to repair the tie assembly.

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Therefore, it would have been obvious to combine Giorgini with Rhodes to repair the rail tie because one would have been motivated to fix the tie on site without the need to move heavy machinery.

g. With respect to claims 1, 11, and 21, the combination of Giorgini and Rhodes do not expressly teach wherein the polyurethane material is to be used to cure defects in rail seats.

h. However, with respect to claims 1, 11, and 21, Young provides motivation that one having the ordinary skill in the art would look to repair defects in a rail tie and rail seat with a similar repairing compound such as epoxy. Young discloses that rail tie assemblies and rail seats need to be restored to original specifications. **(See column 1 lines 50-54)**. Young further teaches that polyurethane can be used to insulate (be a seat) for the space between a rail and a rail tie. **(See column 1 lines 6-10)** Therefore, it would have been obvious to one having the ordinary skill in the art to apply similar repair compositions for rail tie assembly repair to rail seat repair in order to standardize the material needed to repair a rail system. Therefore, it would be obvious to use the teachings of Giorgini and Rhodes, in order to repair rail seats with a polyurethane composition.

7. Regarding claims 2-3 and 12-13, Giorgini does not teach: (1) wherein the damage rail seat is restored without requiring the use of non-ambient heat and (2) wherein the damage rail seat is restored without requiring the use of non-ambient pressure.

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- i. However, Rhodes teaches wherein the polyurethane is curable at an outdoor ambient temperature and pressure. (See claim 1).
 - j. It would have been obvious to one having the ordinary skill in the art that no additional means for applying heat and pressure need be applied to cure a polymeric material that is curable under ambient conditions.
8. Regarding claims 4-5 and 14-15, Giorgini teaches wherein the polyurethane composition has a gel time that can be less than 5 seconds. **(See column 3 lines 35-49).**
9. Regarding claims 6 and 16, Giorgini does not explicitly teach wherein the Set Time of the polymeric material is sufficient for contouring the restored rail seat in situ without requiring the use of non-ambient heat.
- k. However, Rhodes teaches wherein the repair method is In situ and at ambient pressure and temperature. **(See claim 1),**
 - l. It would have been obvious to use an in situ repair process to minimize the need for addition machinery or laborers to repair the rail seat. Furthermore, rail roads assembly's typically must be repaired on site in order to minimize the track down time. Thus, it would have been obvious to use a polyurethane material with a reasonable set time that would minimize track down time.
10. Regarding claims 7-10 and 17-20, the combination of Giorgini and Rhodes do not expressly teach: (1) wherein the rail ties having the restored rail seat maintains the gauge of a rail assembly under dynamic operating conditions; (2) wherein the modulus of the restored rail seat is increased to a level which will resist compressive loading and

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maintain the rail gauge of the rail assembly; (3) wherein the Elongation of the restored rail seat is at least about 10%; and (4) wherein the Shore D (24 hour) Hardness of the restored rail seat is at least about 65.

m. However, Rhodes teaches that Polyurethane is capable of with standing temperatures up to 300 F, which exceeds the maximum temperature that a railroad would typically see. On the other end, low temperature properties of polyurethane are stable. Therefore, repairing a rail assembly with polyurethane would lead to a rail assembly system that does not deform or fatigue due to temperature or pressure changes. **(See column 7 lines 23-32)**.

n. Additionally, Giorgini teaches that strength enhancers, hydrophobic enhancers, and impact absorption enhancers can be added to polyurethane to make a more stable repaired article. **(See abstract)**. Having better impact absorption will eliminate or minimize structural damages that may occur from railroad vibration or jolts and thus allow the rail assembly to preform under dynamic operating conditions.

o. Furthermore, one of ordinary skill in the art would have obviously recognized that the claimed properties of the restored rail seat would have naturally flowed from the claimed process and the claimed materials used in the claimed process. Since, Giorgini in view of Rhodes provides the same process and the same materials as the claimed invention, one of ordinary skill in the art would have obviously recognized, with all things being equal (process and

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materials), that the process of Giorgini and Rhodes would have produced a restore rail seat having the claimed properties.

11. *Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giorgini et al (USP No. 7,138,437) in view of Rhodes et al. (USP No. 4,295,259) as evidenced by Young et al.(USP No. 5,173,222) in further view of AZOM (Polyurethanes – What Goes into Pu, Pages 1-6 (2003)) .*

12. Regarding claims 22-24, Giorgini teaches wherein the polyurethane-urea mixture consists of at least one polyol compound, at least one isocyanate compound and an isocyanate.

p. **See abstract disclosing that the compositions include part A (polyols) and Part B (Isocyanates).**

q. **See column 3 lines 35-49 disclosing that gelling agents such as polyamines can be used with part A (polyol) composition.**

r. **See column 5 lines 32-35 disclosing use as amines as catalyst.**

s. Giorgini does not expressly teach wherein the polyol is a hydroxyl capped polyol and the amine is a polyether capped.

ii. However, Giorgini teaches wherein the polyurethane composition can include extenders. **(See column 8 lines 4-11)**. Giorgini goes on to teach wherein the hydroxyl number for the polyol is between 14-1800. **(See column 2 line 65 to column 3 line 5)**.

iii. Chain extenders are reactive low molecular weight di-functional compounds such as hydroxyl amines, glycols or diamines and are used to

influence the end properties of polyurethane. The chain-extender reacts with the isocyanate to affect the hard/soft segment relationship and therefore the modulus and glass transition temperature (T_g) of the polymer. The T_g provides a measure of the polymer's softening point and some indication of the safe upper limit of its working temperature range.

(See Azom page 4- Chain Extenders)

(1) In this case, it would have been obvious for one having the ordinary skill in the art to alter the T_g and modulus of the polyurethane to alter the sag relationship and curing capability of the polyurethane.

Response to Arguments

1. **Applicant Argument #1:**

a. That the Giorgini reference does not teach using a poly(urethane-urea) material.

2. **Examiner Response to Applicant Argument #1:**

b. However, applicant has described poly (urethane-urea) compositions as at least one polyol, at least one amine, and at least one polyisocyanate. Giorgini teaches these materials. **(See abstract, column 3 lines 35-49, and column 5 lines 32-35)**. Additionally, Giorgini teaches wherein the composition which is a reaction of Part A (polyols) and Part B (Isocyanates) use certain catalyst to drive

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the reaction to a polyurethane-urea hybrid. **(See column 5 lines 5-19)**. In sum, the final product will have urea linkages in the polyurethane composition.

3. **Applicant Argument #2:**

c. The type of material used to repair concrete rail seats is different than repairing holes in a wooden railroad tie.

4. **Examiner Response to Applicant Argument #2:**

d. However, Giorgini provides express motivation for using the claimed composition in wooden repair applications as well as concrete applications. **(See Giorgini column 8 lines 32-40)**. Giorgini teaches the use of a polyurethane based composition that can be used to correct defects of structural members which can be concrete members. **(See abstract and column 8 lines 32-40)**. Giorgini gives an example of a structural member as being a rail tie. "The prior art's mere disclosure of more than one alternative does not constitute a teaching away from any of these alternatives because such disclosure does to place the evidence of Young, within the body of the rejection, rather than at the beginning, not criticize, discredit, or otherwise discourage the solution claimed." *In re Fulton*, 391 F.3d 1195, 1201, 73 USPQ2d 1141, 1146 (Fed. Cir. 2004).

5. **Applicant Argument #3:**

e. Applicant argues that the polyurethane material described by Giorgini is only sag resistant after (not during) the curing stage.

6. **Examiner Response to Applicant Argument #3:**

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- f. As Giorgini's composition is structurally similar to applicant's composition the same properties with respect to sag and runoff would be expected to occur.
7. **Applicant Argument #4:** "That Rhodes is not combinable with Giorgini because Rhodes is drawn to repair of wooden rail ties."
8. **Examiner Response to Applicant Argument #4:**
 - g. This is immaterial, because examiner has cited the Rhodes teaching for the fact one having the ordinary skill in the art would want a polyurethane composition to be curable at ambient conditions to limit the machinery and time expenditure needed to cure the rail defect on site. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In this case, it is immaterial as to what defect Rhodes is used to cure as Rhodes was cited for the position that it would have been obvious to one having the ordinary skill in the art to want the composition to cure on site with minimal cure support.
9. **Applicant Argument #5:** "That the material used in Giorgini would not qualify as consisting essentially of polyurethane material because Giorgini teaches the use of additional components such as strength enhancers."
10. **Examiner Response to Applicant Argument #5:**

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h. However, this is not the correct interpretation of the claim limitation "consisting essentially of." The transitional phrase "consisting essentially of" limits the scope of a claim to the specified materials or steps "and those that do not materially affect the basic and novel characteristic(s)" of the claimed invention. *In re Herz*, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976) (emphasis in original) (Prior art hydraulic fluid required a dispersant which appellants argued was excluded from claims limited to a functional fluid "consisting essentially of" certain components. In finding the claims did not exclude the prior art dispersant, the court noted that appellants' specification indicated the claimed composition can contain any well-known additive such as a dispersant, and there was no evidence that the presence of a dispersant would materially affect the basic and novel characteristic of the claimed invention. The prior art composition had the same basic and novel characteristic (increased oxidation resistance) as well as additional enhanced detergent and dispersant characteristics.). "A 'consisting essentially of' claim occupies a middle ground between closed claims that are written in a 'consisting of' format and fully open claims that are drafted in a 'comprising' format." *PPG Industries v. Guardian Industries*, 156 F.3d 1351, 1354, 48 USPQ2d 1351, 1353-54 (Fed. Cir. 1998). See also *Atlas Powder v. E.I. duPont de Nemours & Co.*, 750 F.2d 1569, 224 USPQ 409 (Fed. Cir. 1984); *In re Janakirama-Rao*, 317 F.2d 951, 137 USPQ 893 (CCPA 1963); *Water Technologies Corp. vs. Calco, Ltd.*, 850 F.2d 660, 7 USPQ2d 1097 (Fed. Cir. 1988). For the purposes of searching for and applying prior art under 35 U.S.C.

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102 and 103, absent a clear indication in the specification or claims of what the basic and novel characteristics actually are, "consisting essentially of" will be construed as equivalent to "comprising." See, e.g., *PPG*, 156 F.3d at 1355, 48 USPQ2d at 1355 ("PPG could have defined the scope of the phrase 'consisting essentially of' for purposes of its patent by making clear in its specification what it regarded as constituting a material change in the basic and novel characteristics of the invention."). **(See also MPEP 2111.03).**

i. Furthermore, applicants own invention calls for the use of fillers, compatibilizers, thixotropes, pigments, anti-setting agents and other additives. **(See page 7 lines 21-31).**

ii. Giorgini discloses that the base component that can be used for the invention is part polyol and part isocyanate which are two main components for producing a polyurethane component. **(See abstract).** Other additives of Giorgini are optional ingredients. **(See column 4 line 39).**

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMJAD ABRAHAM whose telephone number is (571)270-7058. The examiner can normally be reached on Monday through Friday 8:00 AM to 5:00 PM Eastern Time.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Phillip Tucker can be reached on (571) 272-1095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AAA

/Philip C Tucker/
Supervisory Patent Examiner, Art Unit 1791